PATENT COOPERATION TREATY

PCT

REC'D 1 9 AUG 2005

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 62687A	FOR FURTHER A	CTION	See Form PCT/IPEA/416	
International application No. PCT/US2004/018382	International filing date 10.06.2004	(day/month/year)	Priority date (day/month/year) 12.06.2003	
International Patent Classification (IPC) or national classification and IPC C08K3/34				
Applicant DOW GLOBAL TECHNOLOGIES INC.				
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 				
2. This REPORT consists of a total of 5 sheets, including this cover sheet.				
3. This report is also accompanied by ANNEXES, comprising:				
a. \square sent to the applicant and to the International Bureau) a total of sheets, as follows:				
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				
□ sheets which supersed beyond the disclosure Supplemental Box.	le earlier sheets, but w in the international app	hich this Authority consic dication as filed, as indication	lers contain an amendment that goes ated in item 4 of Box No. I and the	
b. (sent to the International Bi sequence listing and/or tab Box Relating to Sequence	ies related thereto, in c	Ombliter readable form o	of electronic carrier(s)) , containing a only, as indicated in the Supplemental astructions).	
4. This report contains indications relating to the following items:				
🖾 Box No. I Basis of the opir	nion			
☐ Box No. II Priority				
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			tep and industrial applicability	
Box No. IV Lack of unity of invention			•	
⊠ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain documen				
	n the international app			
☐ Box No. VIII Certain observat	tions on the internation	al application		
Date of submission of the demand		Date of completion of this	report	
06.01.2005		22.08.2005		
Name and mailing address of the international preliminary examining authority:		Authorized Officer	ens Frience	
European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016		Siemens, T Telephone No. +31 70 34	D-	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US2004/018382

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_	Bo	x No. I Basis of the report			
1.	Wit	With regard to the language , this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.			
		This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of: ☐ international search (under Rules 12.3 and 23.1(b)) ☐ publication of the international application (under Rule 12.4) ☐ international preliminary examination (under Rules 55.2 and/or 55.3)			
2.	,,,,,	h regard to the elements* of the international application, this report is based on <i>(replacement sheets which</i> be been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this ort as "originally filed" and are not annexed to this report):			
	Des	cription, Pages			
	1-10	as originally filed			
	Clai	ms, Numbers			
	1-16	as originally filed			
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing			
3.		The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify):			
4.	Sup	This report has been established as if (some of) the amendments annexed to this report and listed below not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the plemental Box (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify):			
	*	If item 4 applies, some or all of these sheets may be marked "supergoded"			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US2004/018382

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1-16

1. Statement

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Novelty (N) Yes: Claims

No: Claims

Inventive step (IS) Yes: Claims

No: Claims 1-16

Industrial applicability (IA) Yes: Claims 1-16

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

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Re Item V.

The following documents are referred to in this communication:

D1: DD-A-251768 D2: WO-A-8300488

D3: JP-A-10316803 (Derwent-Abstract)

1. Novelty

D1 discloses the use of a combination of synthetic magadiite and a further halogenated organic flame retardant (see claim 3) or inorganic flame retardant (see claim 4).as combined flame retarding agent for polymers.

The polymers disclosed are rubbers and elastomers, not mentioning the polyolefin polymer of the present application.

D2 discloses a flame retardant polyolefin composition comprising an organic brominated flame retardant and a clay compound as well as their use as wire coating. No mention is made of the use of a synthetic magadiite.

D3 discloses a flame retardant polyolefin composition comprising an organic brominated flame retardant and a clay compound. No mention is made of the use of a synthetic magadiite.

Due to the above mentioned differences to the prior art in D1-D3, the present application fulfills the requirements of novelty.

2. Inventive step

The distinguishing feature between D1 which is considered to represent the closest prior art and the claims of the present application is the use of a <u>specific</u> polymeric component, namely a polyolefin.

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No technical effect is however demonstrated due to this distinguishing feature and this feature only.

The objective technical problem of the present application is therefore the preparation of a further flame retardant polymeric composition.

A skilled person knowing the flame retardant effect of a magadiite/further flame retardant combination would obviously apply this knowledge to other polymers, including the claimed polyolefins when considering the above mentioned problem.

Such a change from elastomer to polyolefin is a routine experiment in a laboratory and does not involve an inventive step.

Consequently claims 1-16 of the present application do not involve an inventive step.